

*** It is essential to follow the instructions for specification, sampling and acceptable use provided by the manufacturer which have been developed to comply with the Tile Council Of North America and the accepted National Standard of Specifications for Gauged Porcelain Tile Panels ANSI A137.3 ***

Locelain slabs must be loaded, unloaded and transported by means of a forklift, bridge crane or other hoisting device. Whenever handling and transporting, the slabs must be balanced taking their center of gravity into account.

1. Package Information

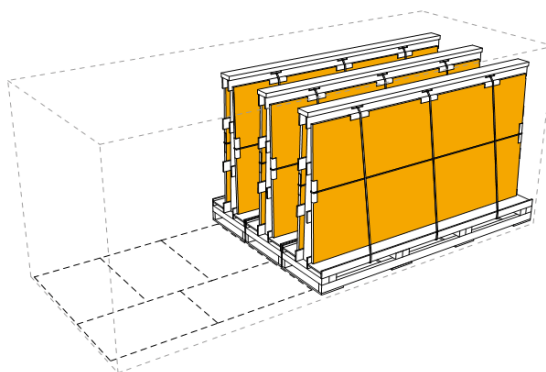
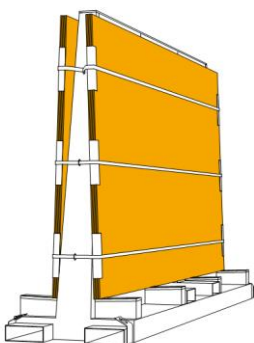
Locelain will be delivered with A-frame pallet package. (wooden frame or steel frame will be applied)

The following table summarizes the weight per slab and per square meter:

Locelain Surfaces recommends 1/2" slabs for countertops. 1/4" slabs are not recommended for countertops.

12 mm thickness	Package	SQM	KG	Gross weight (KG)
Slab	-	5.12	146	
Pallet	16 PCS	81.92	2,336	
Container (20')	3 Pallet (48 PCS)	245.76	7,008	7,674
Container (40')	9 Pallet (144 PCS)	737.28	21,024	23,022

6 mm thickness	Package	SQM	KG	Gross weight (KG)
Slab	-	5.12	72.5	
Pallet	32 PCS	163.84	2,320	
Container (20')	3 Pallet (96 PCS)	491.52	6,960	7,626
Container (40')	9 Pallet (288 PCS)	1,474.56	20,880	22,878



2. Handling

2.1 Transporting with a clamp

Always pay attention to the movement and handling of the slabs to prevent splintering or breakage. Locelain recommends using the following type of clamp for lifting and moving individual slabs:

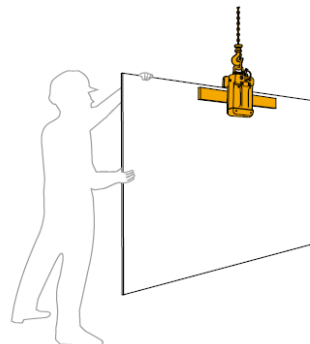
Recommendations:

Clamping more than 2 slabs at the same time is not recommended.

Before lifting polished slabs with the clamp, remove the protective plastic.

Make sure to cover all metal surfaces that may come into contact with the slab with adhesive foam tape. Fixing the ends of the slab with jacks to the plank so the slab doesn't sag during handling is recommended. Position the plank to the rear of the slab to be lifted.

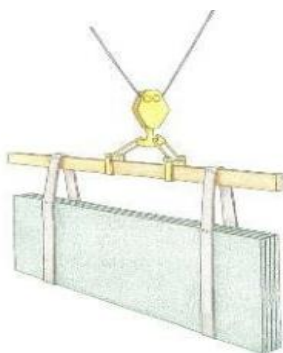
- 1) Place the clamp on the slab and the plank.
- 2) Fix the clamp and lift the slab and plank with care.
- 3) Avoid sudden changes in direction.



* The additional width of this clamp will prevent the slab from bending during handling to, thus, prevent undesirable breakage. This clamp is available through Lotte & our distributor partners. Contact Lotte for more details.

2.2 Transporting with slings

Using canvas slings to move several slabs at the same time is recommended. Metal slings must not be used to handle Locelain slabs.



2.3 Transporting with Vacuum crane

Vacuum crane is useful to move the slab on table bed.

NOTE: Because of roughness of the surface of slab (ex. Matt finish), the vacuum force of suction frame might be lowered and the slab may fall. Please follow the suction frame manufacturer's user manual thoroughly.



NOTE for Safety

Wear safety gloves and safety shoes before handling Locelain.

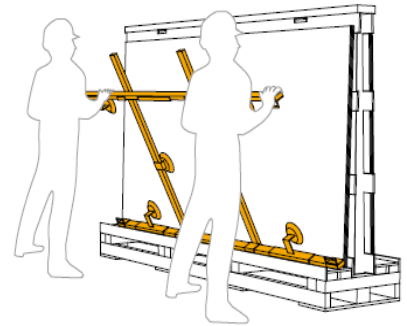
The edges of the product is very sharp so be careful not to hurt yourself.

Do not be in a position where Locelain may fall down.

2.4 Suction frame

For easier handling of slabs and finished parts, using a suction frame is recommended (Only for 1/4" Slabs). The suction cups can move easily along the frame which helps adapt the frame to any size slab needed.

NOTE: Because of roughness of the surface of slab (ex. Matt finish), the vacuum force of suction frame might be lowered and the slab may fall. Please follow the suction frame manufacturer's user manual thoroughly.



This frame can be purchased from Lotte and our distributor partners. Contact Lotte for more details. Handling and installing a piece with a suction frame. If this type of frame is not available, an aluminum rod or similar element, secured with several jacks, can also be used. This will prevent the part from bending too much during handling. Fixing thin, long parts (skirting, for example) with clamps to an aluminum rod for transport is also recommended. This will prevent the part from bending too much during handling. Handling a piece with a rod secured with jacks.

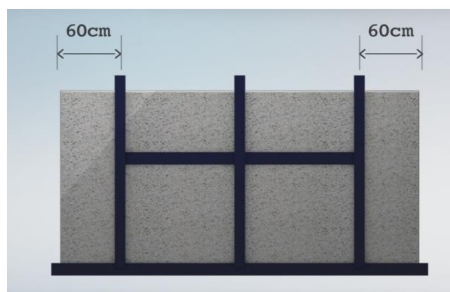
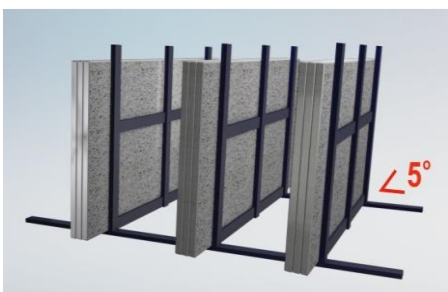
3. Unloading

Use a forklift truck of capacity 5,000 kg with extension forks (minimum length 2.80 m) for loading and unloading A-frame on/off a container.



4. Storage

Locelain is recommended to be stored in a well-ventilated indoor room. Place the slabs length-wise on wooden (or Steel) beams to prevent the slabs from splintering. The slabs need at least three support points, distributed evenly along the back of the slab. The best way to maintain the integrity of the slabs is to keep them in their original packaging or use a full support on the rear of the slab such as an unused granite or marble slab which is wide enough. Avoid positioning large slabs against smaller slabs. Pay special attention in the shop if the slabs are stored outdoors; secure the slabs to sawhorses to protect them from gusts of wind.



5. Transportation

The supports must be able to hold the entire surface of the piece during transport. Supports that are too small may cause the piece to break: When in a truck, the slabs must be completely supported and securing the slabs mechanically (with clamps or belts) is recommended as they could become loose with strong wind and break.

Lightweight slabs and tiles may easily fall from a truck or to the ground so always secure the slabs to a sawhorse while unloading.

